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ARTIFICIAL DIELECTRICS FINAL REPORT

12 MARCH 1990

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PERCENTAGE OF WORK COMPLETED



TASK 1: MATERIALS FABRICATION

No work was done on Task 1.

STATEMENT "A" per Wally Smith
ONR/Code 1131

TELECON

3/21/90

VG

TASK 2: MEASUREMENT AND CHARACTERIZATION

No work was done on Task 2.

TASK 3: THEORY AND MODELING

Task 3 was 5% completed.

DESCRIPTION OF WORK COMPLETED UNDER TASK 3

Perf	Dist	Unit	Just
Py	Distr		
Avail	Anal		
Dist	Anal	Special	
A-1			

A literature search was performed to determine the state-of-the-art in modeling the electromagnetic wave reflection and transmission of periodic arrays of metallic and resistive patches in multilayer structures. The list of references is attached. A preferred computational method was selected¹ that could be implemented within the resource constraints of this contract. Satisfactory implementation of the algorithm was not completed before the work was stopped. (KR) ←

1 S. Contu and R. Tascone, "Scattering from Passive Arrays in Plane Stratified Regions," Electromagnetics 5(4), 1985, p. 285.
R. Orta, R. Tascone and R. Zich, "A Unified Formulation for the Analysis of General Frequency Selective Surfaces, Electromagnetics 5(4), 1985, p.307.

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